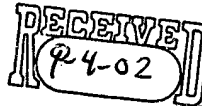


Application No. 09/322,283



TRW Docket No. 12-0895

Sub  
B1 > 12. (Amended) An optical system comprising:  
an optical transmitter, said optical transmitter including an optical modulator for modulating  
an RF input signal onto an optical carrier signal having multiple wavelengths and defining an RF  
modulated optical signal;  
an optical receiver for demodulating said RF modulated optical signal and providing an RF  
output signal; and  
an optical link connecting said optical transmitter and said optical receiver, wherein said  
optical link is in free space.

13. (Amended) An optical system comprising:  
an optical transmitter, said optical transmitter including an optical modulator for modulating  
an RF input signal onto an optical carrier signal having multiple wavelengths and defining an RF  
modulated optical signal;  
an optical receiver for demodulating said RF modulated optical signal and providing an RF  
output signal; and  
an optical link connecting said optical transmitter and said optical receiver, wherein said  
optical modulator is a Mach-Zehnder modulator having an RF input port, a bias voltage input port, an  
optical carrier input port, and an optical output port.

16. (Amended) The optical system as recited in claim 15, wherein said bias control circuit  
includes a wavelength division multiplexer (WDM), a summing junction and a pair of  
photodetectors.

17. (Amended) The optical system as recited in claim 16, wherein said WDM, said  
summing junction and said pair of photodetectors are coupled to said input port of said Mach-  
Zehnder modulator.